

## SOUTH DAKOTA

**Table 42.1** *Marijuana Use in Past Month, Average Annual Rate of First Use of Marijuana, and Perceptions of Great Risk of Smoking Marijuana Once a Month in South Dakota among Persons Aged 12 or Older, by Substate Region: Percentages, Annual Averages Based on 1999, 2000, and 2001 NSDUHs*

| State/Substate Region | Marijuana Use in Past Month |                         | Average Annual Rate of First Use of Marijuana <sup>1</sup> |                         | Perceptions of Great Risk of Smoking Marijuana Once a Month |                         |
|-----------------------|-----------------------------|-------------------------|--|-------------------------|---|-------------------------|
|                       | Estimate                    | 95% Prediction Interval | Estimate   | 95% Prediction Interval | Estimate  | 95% Prediction Interval |
| <b>South Dakota</b>   | 3.71                        | (3.11 - 4.43)           | 1.57   | (1.37 - 1.80)           | 42.13   | (39.57 - 44.74)         |
| Region 1 (Pennington) | 4.42                        | (3.19 - 6.09)           | 1.99   | (1.50 - 2.64)           | 38.96   | (34.28 - 43.85)         |
| Region 2              | 4.10                        | (3.05 - 5.50)           | 1.77   | (1.38 - 2.28)           | 43.87   | (39.30 - 48.54)         |
| Region 3 (Minnehaha)  | 4.16                        | (3.08 - 5.59)           | 1.66   | (1.29 - 2.13)           | 38.54   | (34.42 - 42.83)         |
| Region 4              | 3.20                        | (2.31 - 4.41)           | 1.75   | (1.33 - 2.29)           | 40.41   | (35.49 - 45.54)         |
| Region 5              | 2.78                        | (1.99 - 3.87)           | 1.05   | (0.75 - 1.47)           | 46.70   | (41.57 - 51.90)         |
| Region 6              | 3.03                        | (2.14 - 4.28)           | 1.01   | (0.73 - 1.41)           | 46.13   | (41.21 - 51.12)         |
| Region 7              | 3.92                        | (2.88 - 5.31)           | 1.75   | (1.35 - 2.26)           | 42.09   | (37.73 - 46.58)         |

NOTE: For Substate Region definitions, see Section D of the report on *Substate Estimates from the 1999-2001 National Surveys on Drug Use and Health*.

NOTE: Estimates are based on a survey-weighted hierarchical Bayes estimation approach, and the 95 percent prediction (credible) intervals are generated by Markov Chain Monte Carlo techniques.

<sup>1</sup> Average Annual Rate = {(Number of Marijuana Initiates in past 24 months)/[(Number of Marijuana Initiates in past 24 months \* 0.5) + Number of persons who never used marijuana]}/2. Both the computation components, Number of Marijuana Initiates in past 24 months and Number of persons who never used marijuana, are based on a survey-weighted hierarchical Bayes estimation approach. Note that the age group is based on a respondent's age at the time of the interview, not his or her age at first use. The prediction intervals for Average Annual Rate of First Use of Marijuana use a simultaneous solution for First Use of Marijuana and Never Used Marijuana outcomes, which had random effects that were allowed to be correlated across the two outcomes. The associated Markov Chain Monte Carlo chains were used to calculate the posterior variance.

Source: SAMHSA, Office of Applied Studies, National Survey on Drug Use and Health, 1999, 2000, and 2001.

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**Table 42.2 Any Illicit Drug Use in Past Month, Any Illicit Drug Use Other than Marijuana in Past Month, and Cocaine Use in Past Year in South Dakota among Persons Aged 12 or Older, by Substate Region: Percentages, Annual Averages Based on 1999, 2000, and 2001 NSDUHs**

| State/Substate Region | Illicit Drug Use in Past Month <sup>1</sup> |                         | Any Illicit Drug Use Other Than Marijuana in Past Month <sup>1</sup> |                         | Cocaine Use in Past Year |                         |
|-----------------------|---|-------------------------|--|-------------------------|--------------------------|-------------------------|
|                       | Estimate                                    | 95% Prediction Interval | Estimate   | 95% Prediction Interval | Estimate                 | 95% Prediction Interval |
| <b>South Dakota</b>   | 4.58  | (3.86 - 5.42)           | 2.13   | (1.65 - 2.75)           | 1.38                     | (1.08 - 1.76)           |
| Region 1 (Pennington) | 5.54  | (4.03 - 7.56)           | 2.54   | (1.72 - 3.73)           | 1.45                     | (1.01 - 2.09)           |
| Region 2              | 4.80  | (3.66 - 6.27)           | 2.05   | (1.41 - 2.97)           | 1.19                     | (0.83 - 1.71)           |
| Region 3 (Minnehaha)  | 5.03  | (3.81 - 6.60)           | 2.14   | (1.52 - 3.01)           | 1.62                     | (1.16 - 2.27)           |
| Region 4              | 4.00  | (2.92 - 5.46)           | 1.99   | (1.38 - 2.87)           | 1.31                     | (0.90 - 1.91)           |
| Region 5              | 3.57  | (2.59 - 4.91)           | 1.92   | (1.34 - 2.74)           | 1.19                     | (0.83 - 1.70)           |
| Region 6              | 3.69  | (2.62 - 5.18)           | 1.90   | (1.26 - 2.85)           | 1.17                     | (0.80 - 1.70)           |
| Region 7              | 5.14  | (3.81 - 6.88)           | 2.44   | (1.73 - 3.43)           | 1.67                     | (1.16 - 2.38)           |

NOTE: For Substate Region definitions, see Section D of the report on *Substate Estimates from the 1999-2001 National Surveys on Drug Use and Health*.

NOTE: Estimates are based on a survey-weighted hierarchical Bayes estimation approach, and the 95 percent prediction (credible) intervals are generated by Markov Chain Monte Carlo techniques.

<sup>1</sup> Any Illicit Drug includes marijuana/hashish, cocaine (including crack), heroin, hallucinogens, inhalants, or any prescription-type psychotherapeutic used nonmedically. Any Illicit Drug Other Than Marijuana includes cocaine (including crack), heroin, hallucinogens, inhalants, or any prescription-type psychotherapeutic used nonmedically.

Source: SAMHSA, Office of Applied Studies, National Survey on Drug Use and Health, 1999, 2000, and 2001.

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**Table 42.3** *Alcohol Use in Past Month, Binge Alcohol Use in Past Month, and Perceptions of Great Risk of Having Five or More Drinks of an Alcoholic Beverage Once or Twice a Week in South Dakota among Persons Aged 12 or Older, by Substate Region: Percentages, Annual Averages Based on 1999, 2000, and 2001 NSDUHs*

| State/Substate Region | Alcohol Use in Past Month |                         | Binge Alcohol Use in Past Month <sup>1</sup> |                         | Perceptions of Great Risk of Having Five or More Drinks of an Alcoholic Beverage Once or Twice a Week |                         |
|-----------------------|---------------------------|-------------------------|--|-------------------------|---|-------------------------|
|                       | Estimate                  | 95% Prediction Interval | Estimate                                     | 95% Prediction Interval | Estimate  | 95% Prediction Interval |
| <b>South Dakota</b>   | 52.44                     | (49.87 - 55.00)         | 24.92  | (22.99 - 26.95)         | 36.53   | (34.03 - 39.11)         |
| Region 1 (Pennington) | 52.77                     | (47.55 - 57.92)         | 24.42  | (20.82 - 28.41)         | 37.19   | (32.71 - 41.91)         |
| Region 2              | 49.16                     | (44.19 - 54.13)         | 25.16  | (21.45 - 29.29)         | 37.32   | (32.95 - 41.92)         |
| Region 3 (Minnehaha)  | 56.78                     | (52.11 - 61.34)         | 24.67  | (21.36 - 28.32)         | 38.65   | (34.56 - 42.91)         |
| Region 4              | 53.08                     | (47.67 - 58.42)         | 25.66  | (21.81 - 29.92)         | 34.72   | (30.15 - 39.59)         |
| Region 5              | 47.25                     | (41.10 - 53.49)         | 24.69  | (20.81 - 29.03)         | 35.78   | (30.94 - 40.92)         |
| Region 6              | 52.97                     | (47.32 - 58.54)         | 22.68  | (19.07 - 26.74)         | 35.70   | (30.87 - 40.84)         |
| Region 7              | 53.56                     | (48.34 - 58.69)         | 26.99  | (23.21 - 31.14)         | 35.08   | (30.84 - 39.58)         |

NOTE: For Substate Region definitions, see Section D of the report on *Substate Estimates from the 1999-2001 National Surveys on Drug Use and Health*.

NOTE: Estimates are based on a survey-weighted hierarchical Bayes estimation approach, and the 95 percent prediction (credible) intervals are generated by Markov Chain Monte Carlo techniques.

<sup>1</sup> Binge Alcohol Use is defined as drinking five or more drinks on the same occasion (i.e., at the same time or within a couple of hours of each other) on at least 1 day in the past 30 days.

Source: SAMHSA, Office of Applied Studies, National Survey on Drug Use and Health, 1999, 2000, and 2001.

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**Table 42.4 Cigarette Use in Past Month, Any Tobacco Product Use in Past Month, and Perceptions of Great Risk of Smoking One or More Packs of Cigarettes Per Day in South Dakota among Persons Aged 12 or Older, by Substate Region: Percentages, Annual Averages Based on 1999, 2000, and 2001 NSDUHs**

| State/Substate Region | Cigarette Use in Past Month |                         | Any Tobacco Product Use in Past Month <sup>1</sup> |                         | Perceptions of Great Risk of Smoking One or More Packs of Cigarettes Per Day |                         |
|-----------------------|-----------------------------|-------------------------|--|-------------------------|--|-------------------------|
|                       | Estimate                    | 95% Prediction Interval | Estimate   | 95% Prediction Interval | Estimate   | 95% Prediction Interval |
| <b>South Dakota</b>   | 26.56                       | (24.42 - 28.83)         | 32.28  | (29.93 - 34.72)         | 63.00  | (60.42 - 65.51)         |
| Region 1 (Pennington) | 28.00                       | (24.00 - 32.39)         | 33.45  | (28.94 - 38.28)         | 65.35  | (60.57 - 69.85)         |
| Region 2              | 27.18                       | (23.27 - 31.47)         | 34.38  | (29.76 - 39.31)         | 63.36  | (58.66 - 67.82)         |
| Region 3 (Minnehaha)  | 26.02                       | (22.72 - 29.61)         | 31.55  | (27.83 - 35.53)         | 63.15  | (58.74 - 67.35)         |
| Region 4              | 26.19                       | (22.27 - 30.53)         | 33.02  | (28.63 - 37.73)         | 61.76  | (56.63 - 66.64)         |
| Region 5              | 25.42                       | (21.23 - 30.12)         | 29.48  | (24.83 - 34.60)         | 62.72  | (57.50 - 67.66)         |
| Region 6              | 24.16                       | (20.16 - 28.67)         | 29.28  | (24.72 - 34.29)         | 62.72  | (57.39 - 67.75)         |
| Region 7              | 29.06                       | (25.05 - 33.42)         | 34.00  | (29.81 - 38.45)         | 62.02  | (57.37 - 66.45)         |

NOTE: For Substate Region definitions, see Section D of the report on *Substate Estimates from the 1999-2001 National Surveys on Drug Use and Health*.

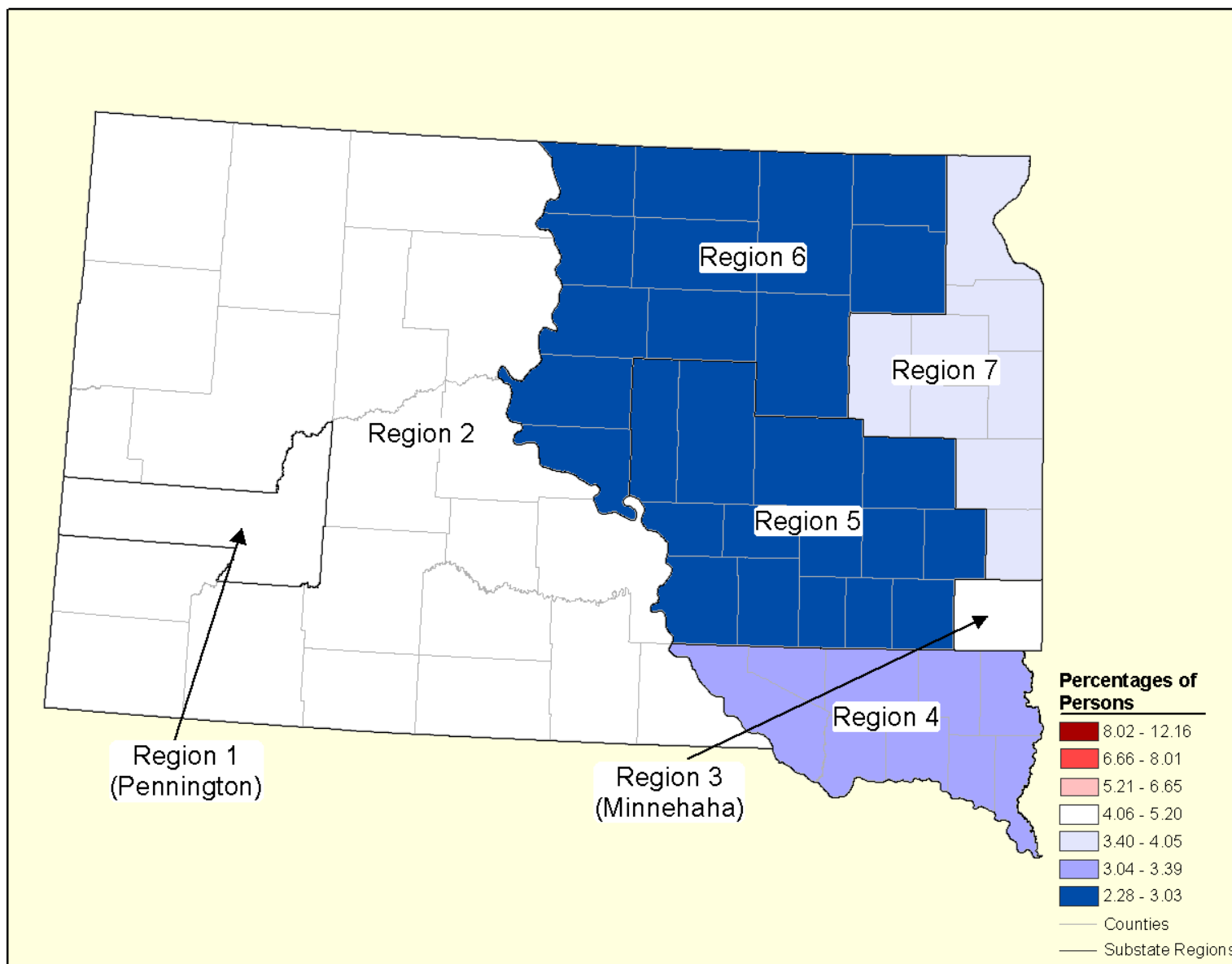
NOTE: Estimates are based on a survey-weighted hierarchical Bayes estimation approach, and the 95 percent prediction (credible) intervals are generated by Markov Chain Monte Carlo techniques.

<sup>1</sup> Any Tobacco product includes cigarettes, smokeless tobacco (i.e., chewing tobacco or snuff), cigars, or pipe tobacco.

Source: SAMHSA, Office of Applied Studies, National Survey on Drug Use and Health, 1999, 2000, and 2001.

**Figure 42.1.1 Marijuana Use in Past Month among Persons Aged 12 or Older in South Dakota, by Substate Region: Percentages, Annual Averages Based on 1999, 2000, and 2001 NSDUHs**

199

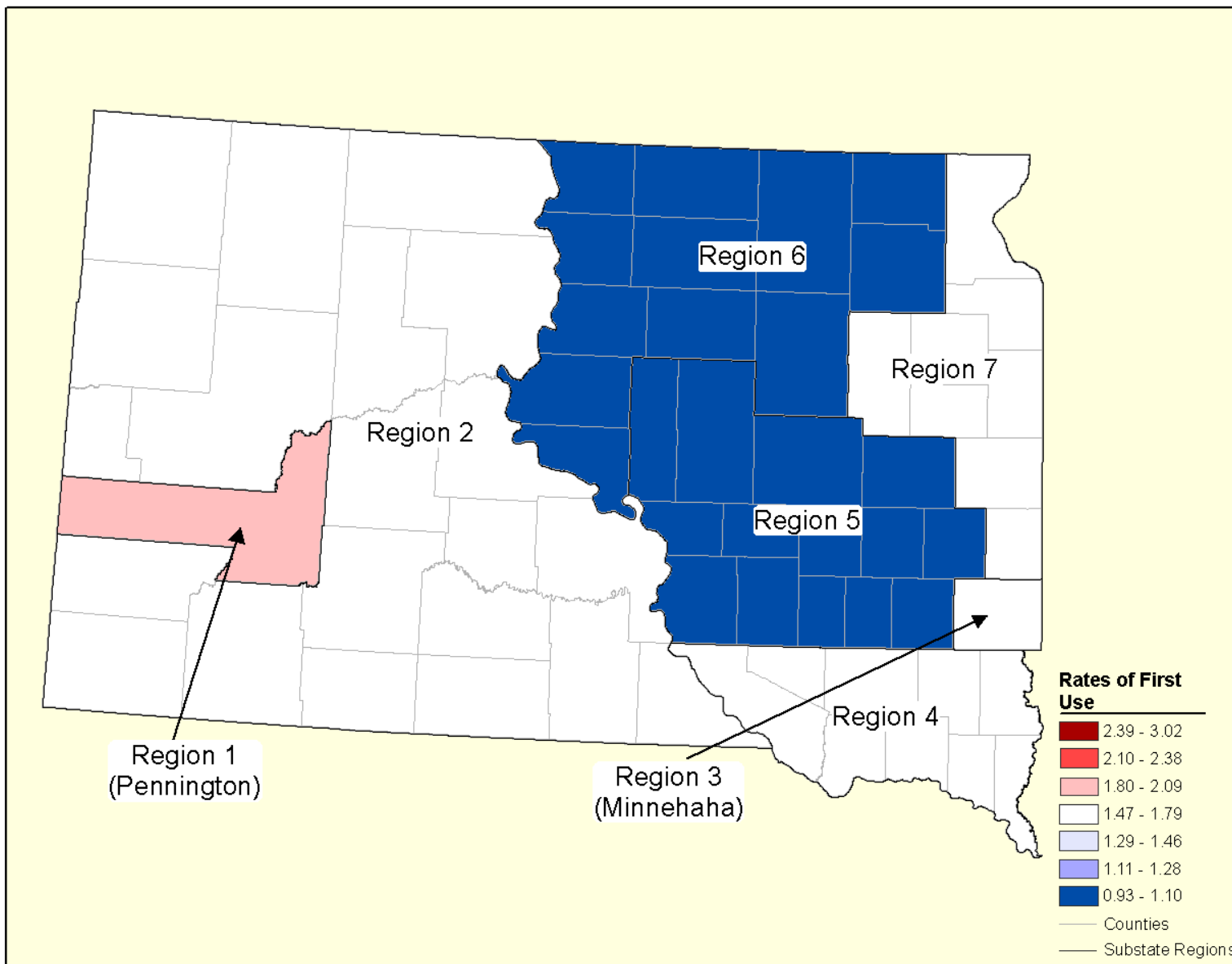


NOTE: The legend's ranges were created by dividing 331 substate regions, nationally, into 7 groups based on the magnitude of their percentages. For substate region definitions, see Section D of the report on *Substate Estimates from the 1999-2001 National Surveys on Drug Use and Health*.

Source: SAMHSA, Office of Applied Studies, National Survey on Drug Use and Health, 1999, 2000, and 2001.

**Figure 42.1.2 First Use of Marijuana among Persons Aged 12 or Older in South Dakota, by Substate Region: Average Annual Rates Based on 1999, 2000, and 2001 NSDUHs**

662

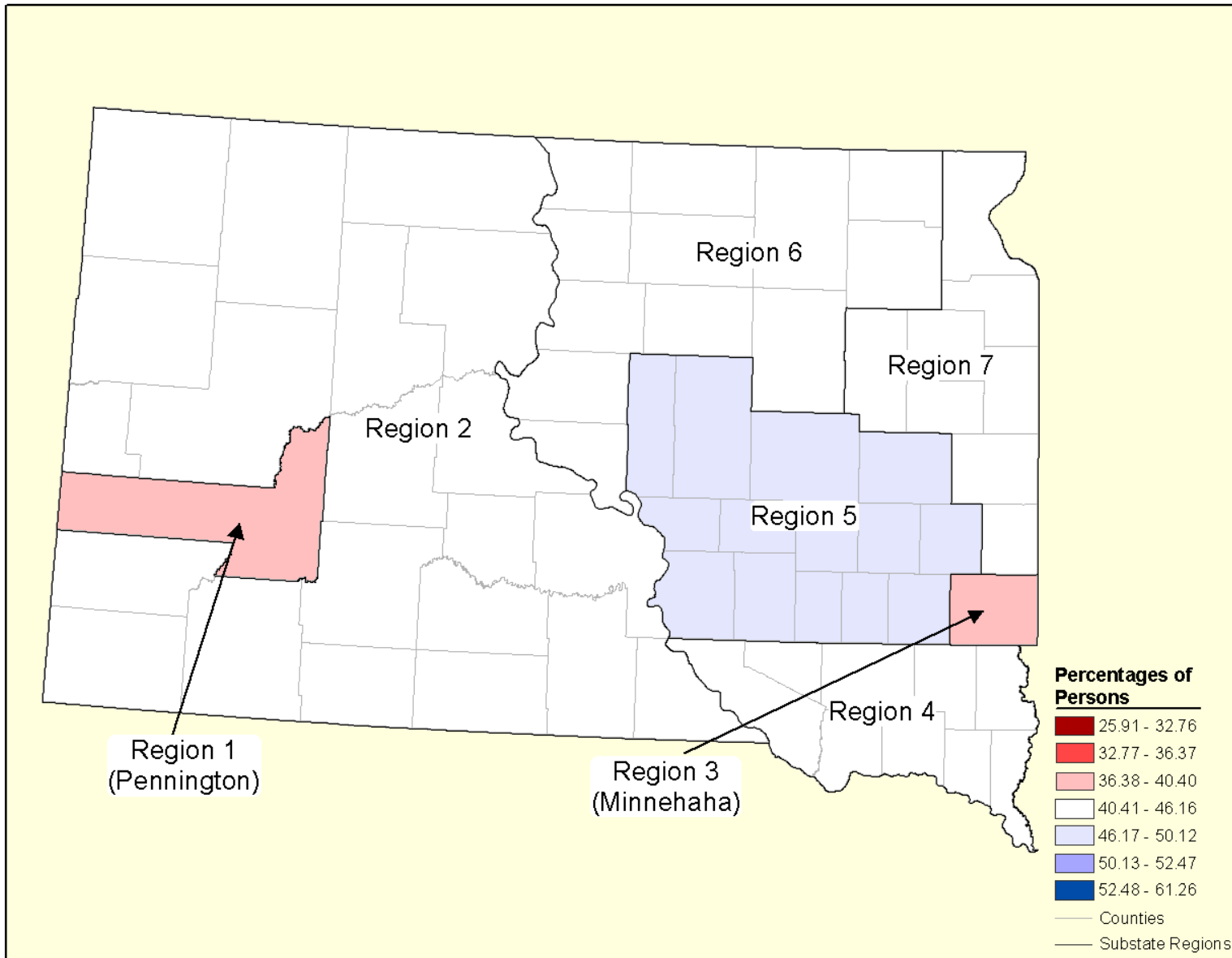


NOTE: The legend's ranges were created by dividing 331 substate regions, nationally, into 7 groups based on the magnitude of their percentages. For substate region definitions, see Section D of the report on *Substate Estimates from the 1999-2001 National Surveys on Drug Use and Health*.

Source: SAMHSA, Office of Applied Studies, National Survey on Drug Use and Health, 1999, 2000, and 2001.

**Figure 42.1.3 Perceptions of Great Risk of Smoking Marijuana Once a Month among Persons Aged 12 or Older in South Dakota, by Substate Region: Percentages, Annual Averages Based on 1999, 2000, and 2001 NSDUHs**

663

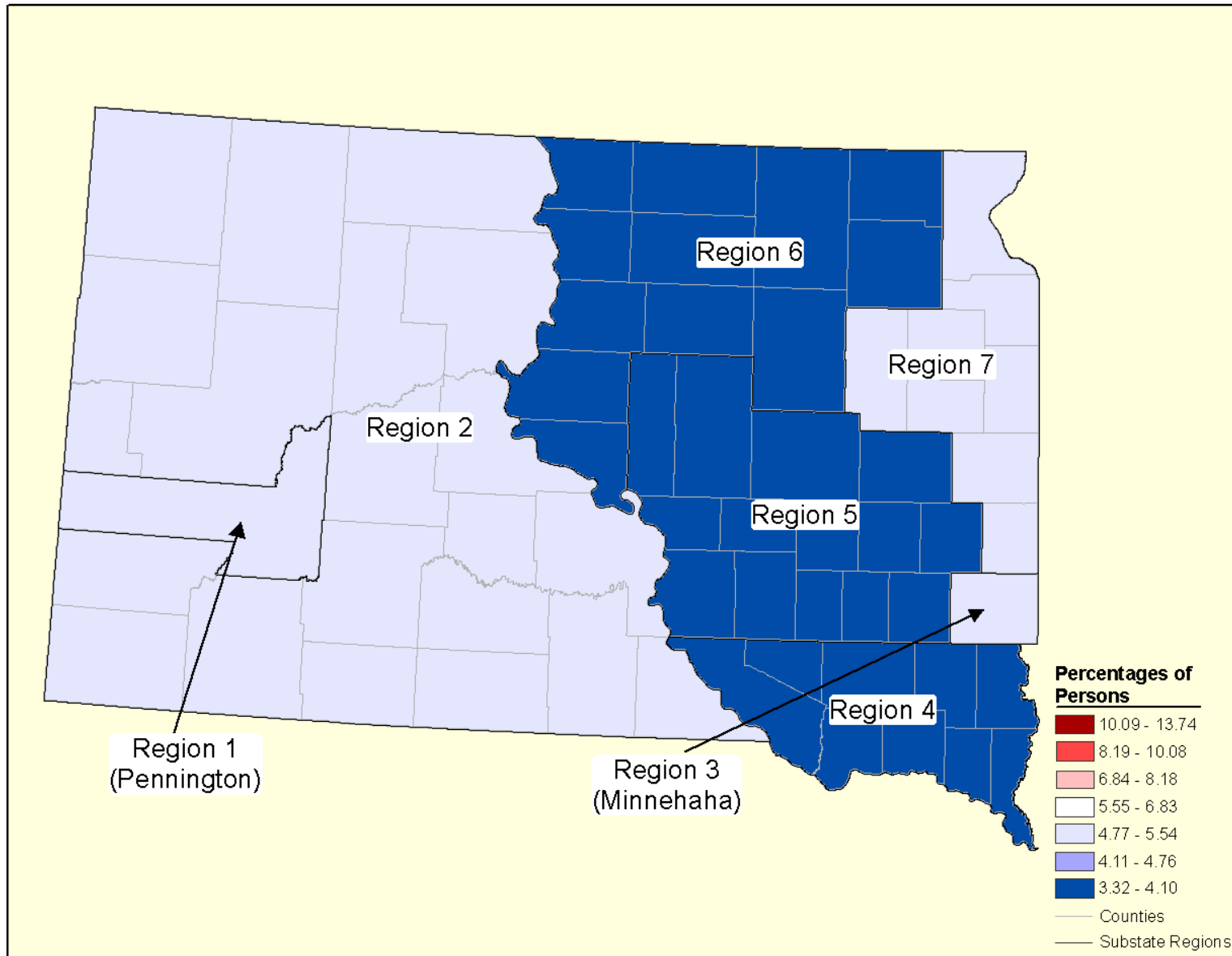


NOTE: The legend's ranges were created by dividing 331 substate regions, nationally, into 7 groups based on the magnitude of their percentages. For substate region definitions, see Section D of the report on *Substate Estimates from the 1999-2001 National Surveys on Drug Use and Health*.

Source: SAMHSA, Office of Applied Studies, National Survey on Drug Use and Health, 1999, 2000, and 2001.

**Figure 42.2.1 Any Illicit Drug Use in Past Month among Persons Aged 12 or Older in South Dakota, by Substate Region: Percentages, Annual Averages Based on 1999, 2000, and 2001 NSDUHs**

664

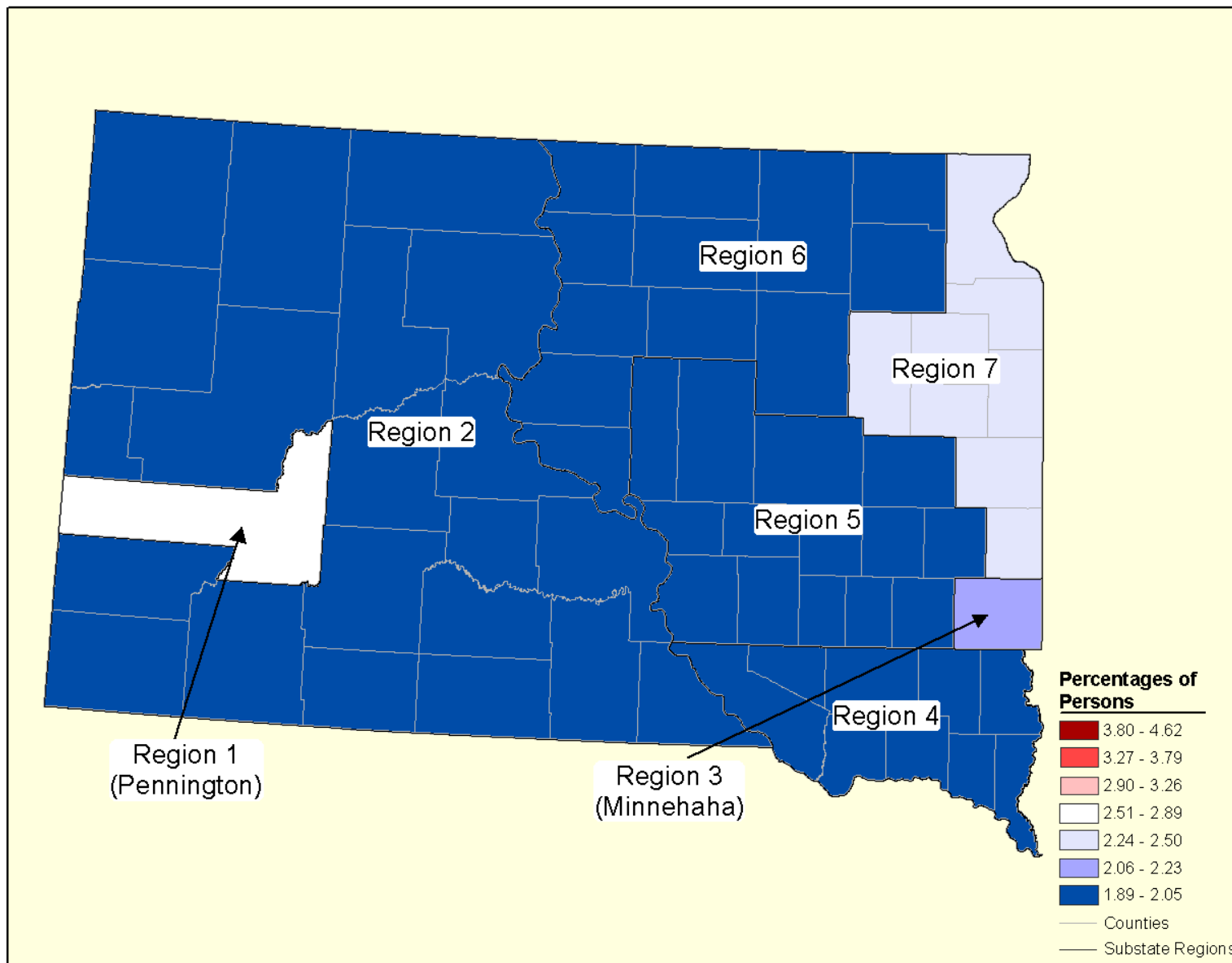


NOTE: The legend's ranges were created by dividing 331 substate regions, nationally, into 7 groups based on the magnitude of their percentages. For substate region definitions, see Section D of the report on *Substate Estimates from the 1999-2001 National Surveys on Drug Use and Health*.  
 Source: SAMHSA, Office of Applied Studies, National Survey on Drug Use and Health, 1999, 2000, and 2001.



**Figure 42.2.2 Any Illicit Drug Use Other Than Marijuana in Past Month among Persons Aged 12 or Older in South Dakota, by Substate Region: Percentages, Annual Averages Based on 1999, 2000, and 2001 NSDUHs**

665

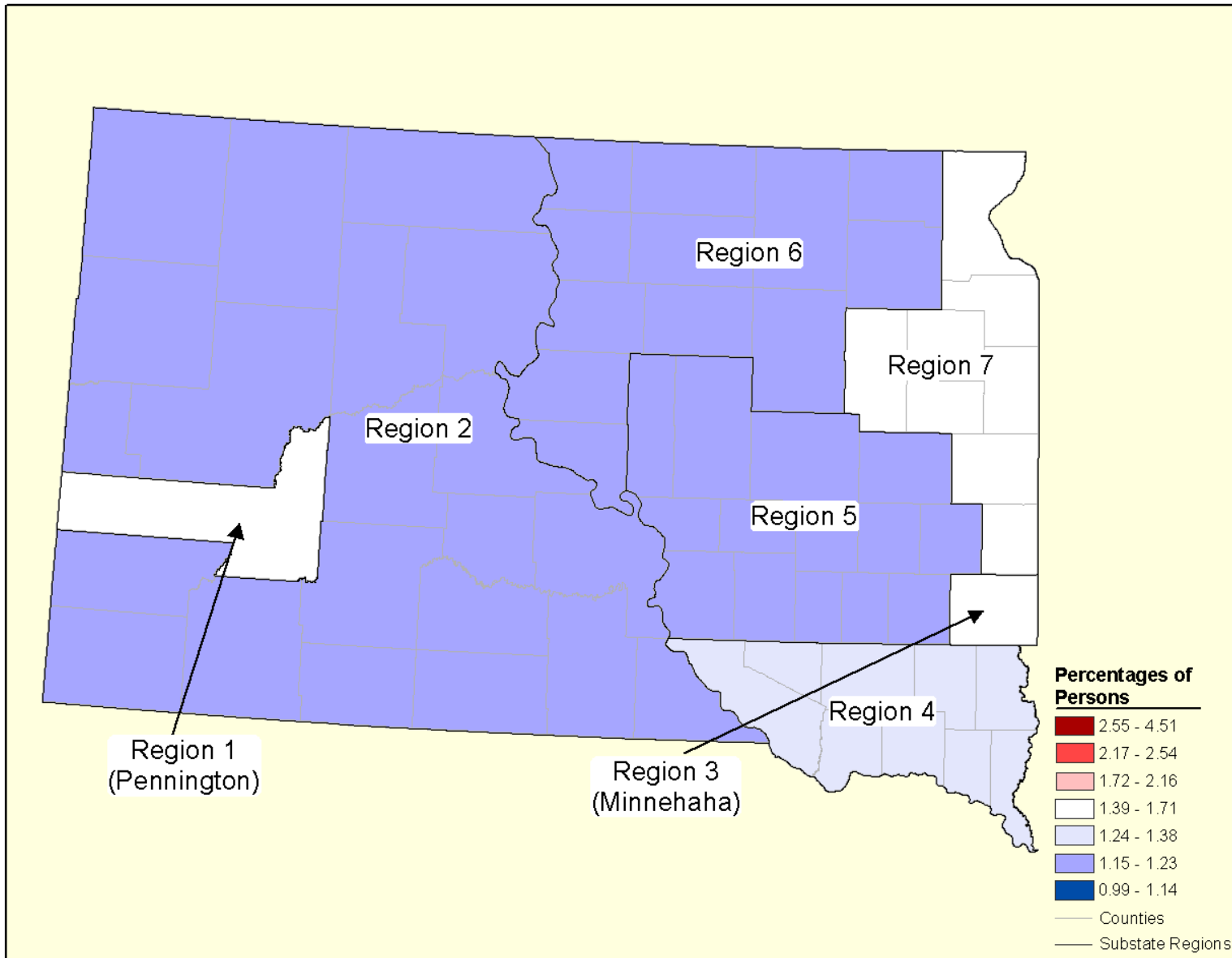


NOTE: The legend's ranges were created by dividing 331 substate regions, nationally, into 7 groups based on the magnitude of their percentages. For substate region definitions, see Section D of the report on *Substate Estimates from the 1999-2001 National Surveys on Drug Use and Health*.

Source: SAMHSA, Office of Applied Studies, National Survey on Drug Use and Health, 1999, 2000, and 2001.

**Figure 42.2.3 Cocaine Use in Past Year among Persons Aged 12 or Older in South Dakota, by Substate Region: Percentages, Annual Averages Based on 1999, 2000, and 2001 NSDUHs**

999

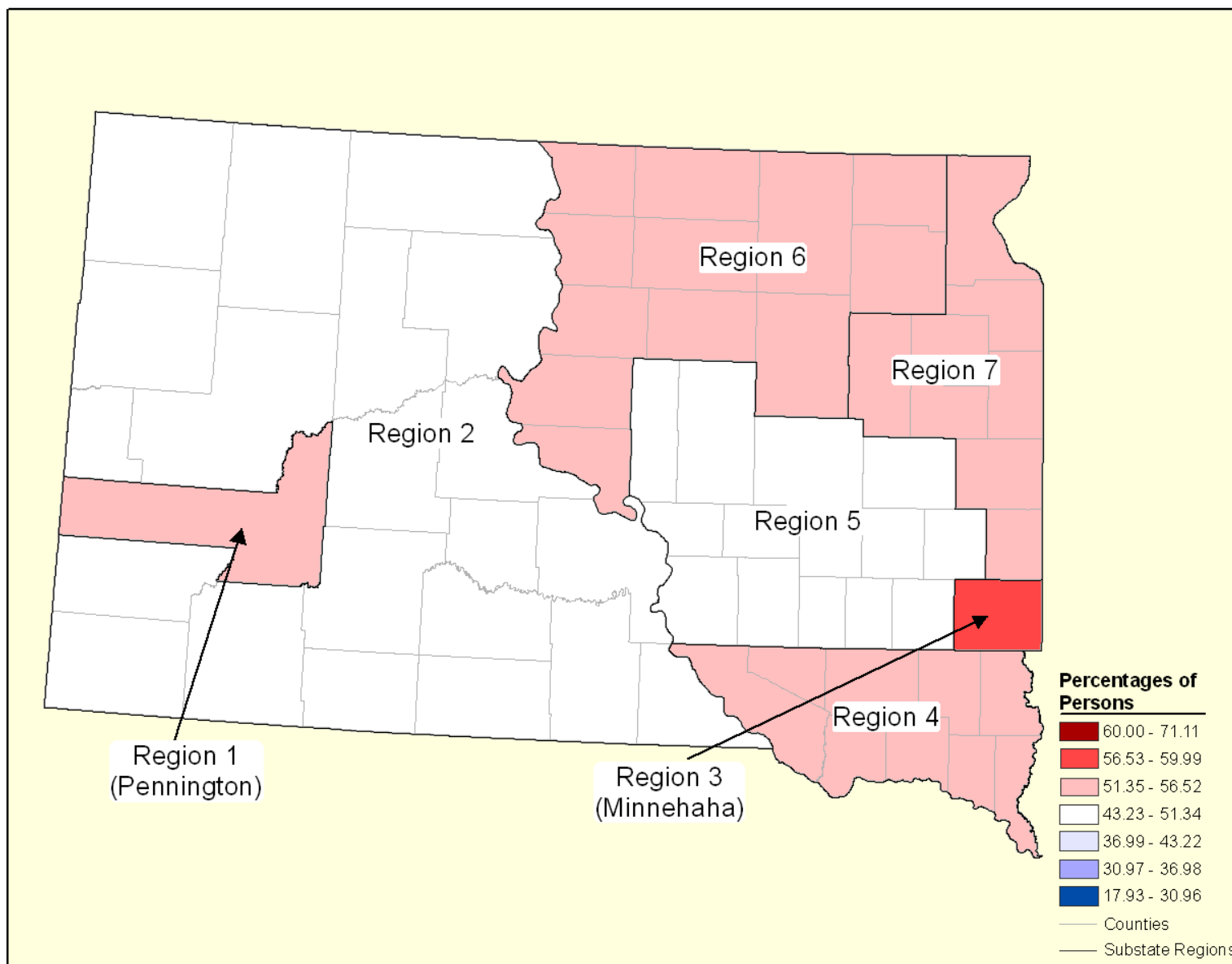


NOTE: The legend's ranges were created by dividing 331 substate regions, nationally, into 7 groups based on the magnitude of their percentages. For substate region definitions, see Section D of the report on *Substate Estimates from the 1999-2001 National Surveys on Drug Use and Health*.

Source: SAMHSA, Office of Applied Studies, National Survey on Drug Use and Health, 1999, 2000, and 2001.

**Figure 42.3.1 Alcohol Use in Past Month among Persons Aged 12 or Older in South Dakota, by Substate Region: Percentages, Annual Averages Based on 1999, 2000, and 2001 NSDUHs**

667

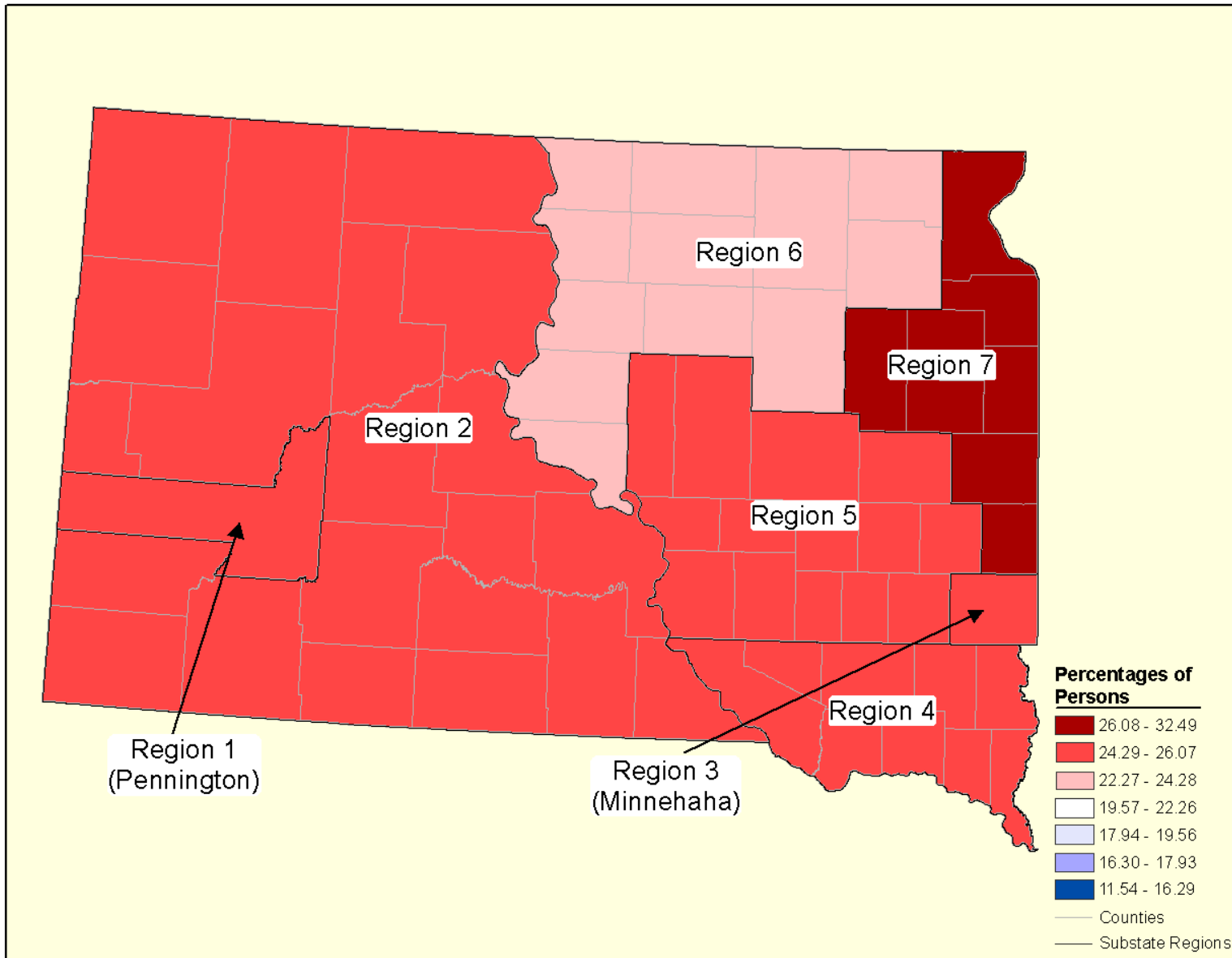


NOTE: The legend's ranges were created by dividing 331 substate regions, nationally, into 7 groups based on the magnitude of their percentages. For substate region definitions, see Section D of the report on *Substate Estimates from the 1999-2001 National Surveys on Drug Use and Health*.

Source: SAMHSA, Office of Applied Studies, National Survey on Drug Use and Health, 1999, 2000, and 2001.

**Figure 42.3.2 Binge Alcohol Use in Past Month among Persons Aged 12 or Older in South Dakota, by Substate Region: Percentages, Annual Averages Based on 1999, 2000, and 2001 NSDUHs**

899

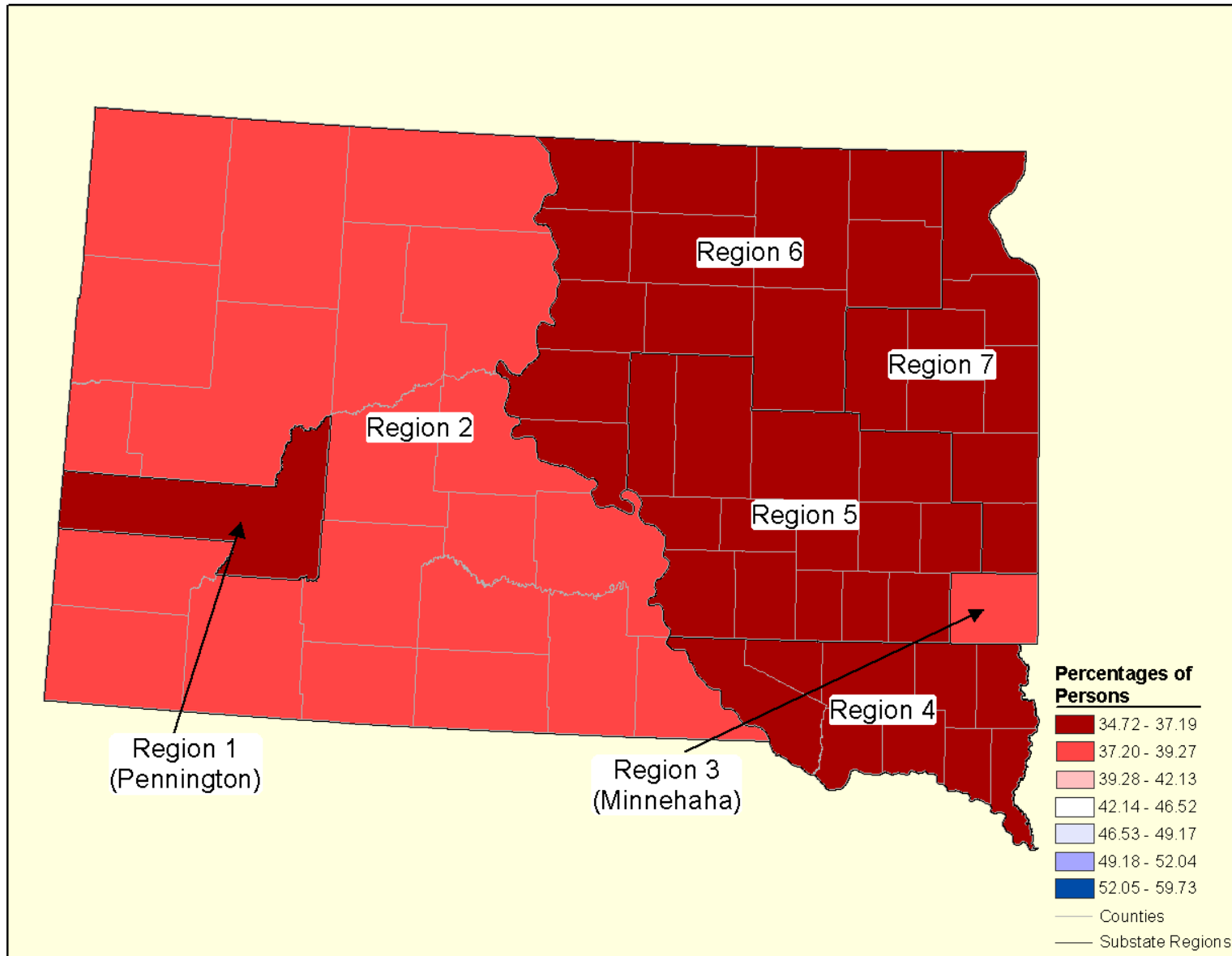


NOTE: The legend's ranges were created by dividing 331 substate regions, nationally, into 7 groups based on the magnitude of their percentages. For substate region definitions, see Section D of the report on *Substate Estimates from the 1999-2001 National Surveys on Drug Use and Health*.

Source: SAMHSA, Office of Applied Studies, National Survey on Drug Use and Health, 1999, 2000, and 2001.

**Figure 42.3.3** *Perceptions of Great Risk of Having Five or More Drinks of an Alcoholic Beverage Once or Twice a Week among Persons Aged 12 or Older in South Dakota, by Substate Region: Percentages, Annual Averages Based on 1999, 2000, and 2001 NSDUHs*

699

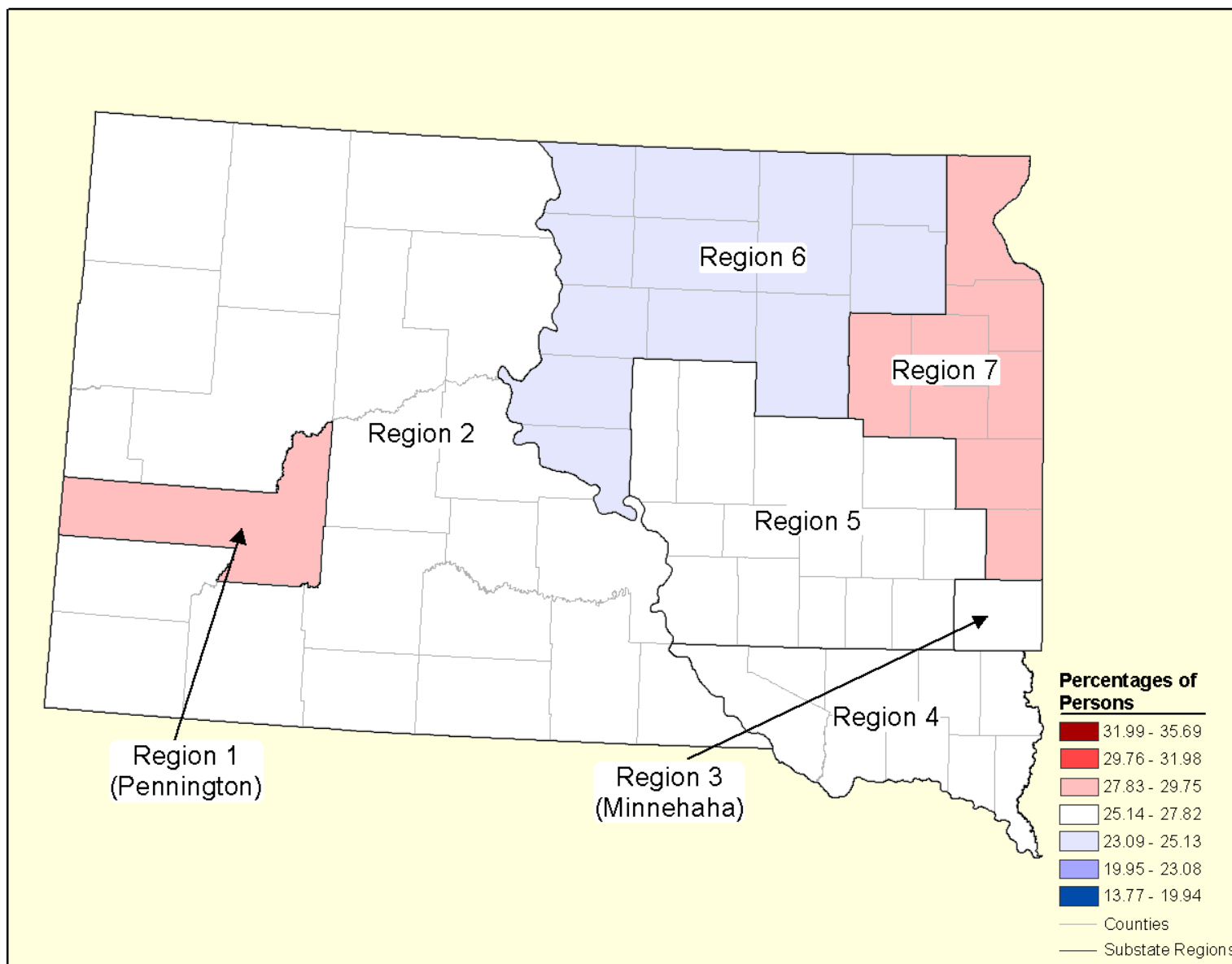


NOTE: The legend's ranges were created by dividing 331 substate regions, nationally, into 7 groups based on the magnitude of their percentages. For substate region definitions, see Section D of the report on *Substate Estimates from the 1999-2001 National Surveys on Drug Use and Health*.

Source: SAMHSA, Office of Applied Studies, National Survey on Drug Use and Health, 1999, 2000, and 2001.

**Figure 42.4.1 Cigarette Use in Past Month among Persons Aged 12 or Older in South Dakota, by Substate Region: Percentages, Annual Averages Based on 1999, 2000, and 2001 NSDUHs**

670

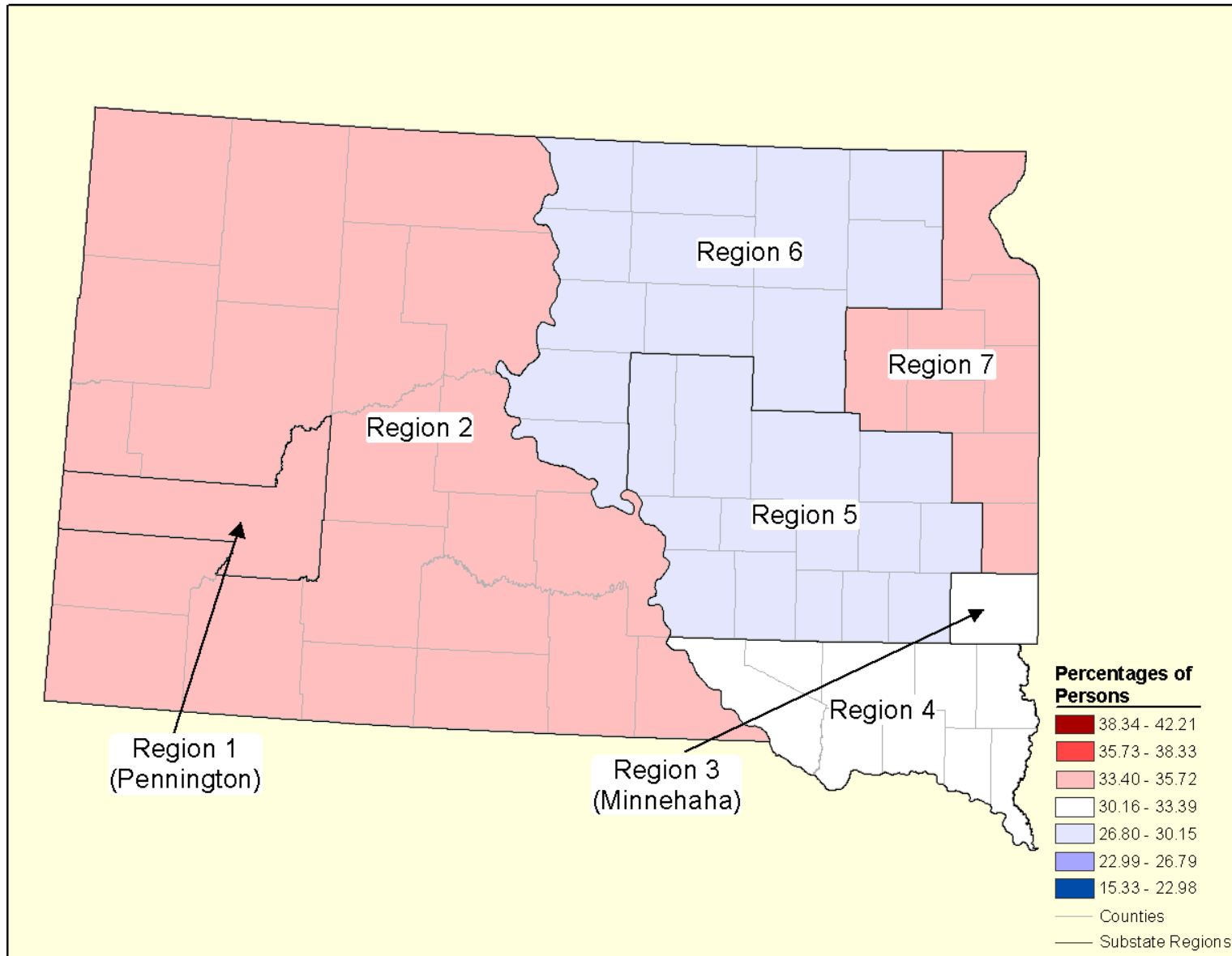


NOTE: The legend's ranges were created by dividing 331 substate regions, nationally, into 7 groups based on the magnitude of their percentages. For substate region definitions, see Section D of the report on *Substate Estimates from the 1999-2001 National Surveys on Drug Use and Health*.

Source: SAMHSA, Office of Applied Studies, National Survey on Drug Use and Health, 1999, 2000, and 2001.

**Figure 42.4.2 Any Tobacco Product Use in Past Month among Persons Aged 12 or Older in South Dakota, by Substate Region: Percentages, Annual Averages Based on 1999, 2000, and 2001 NSDUHs**

671

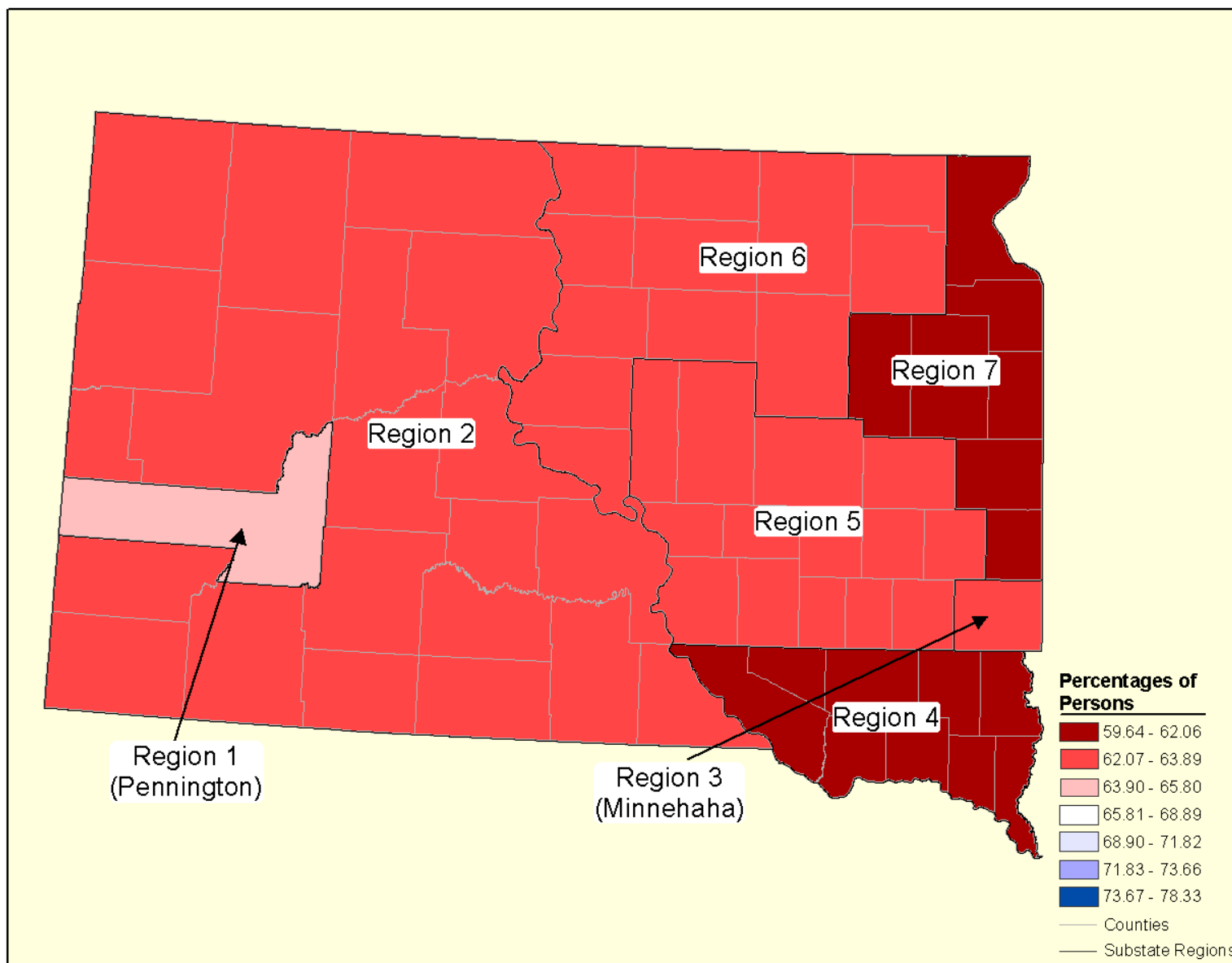


NOTE: The legend's ranges were created by dividing 331 substate regions, nationally, into 7 groups based on the magnitude of their percentages. For substate region definitions, see Section D of the report on *Substate Estimates from the 1999-2001 National Surveys on Drug Use and Health*.

Source: SAMHSA, Office of Applied Studies, National Survey on Drug Use and Health, 1999, 2000, and 2001.

**Figure 42.4.3** *Perceptions of Great Risk of Smoking One or More Packs of Cigarettes Per Day among Persons Aged 12 or Older in South Dakota, by Substate Region: Percentages, Annual Averages Based on 1999, 2000, and 2001 NSDUHs*

672



NOTE: The legend's ranges were created by dividing 331 substate regions, nationally, into 7 groups based on the magnitude of their percentages. For substate region definitions, see Section D of the report on *Substate Estimates from the 1999-2001 National Surveys on Drug Use and Health*.

Source: SAMHSA, Office of Applied Studies, National Survey on Drug Use and Health, 1999, 2000, and 2001.